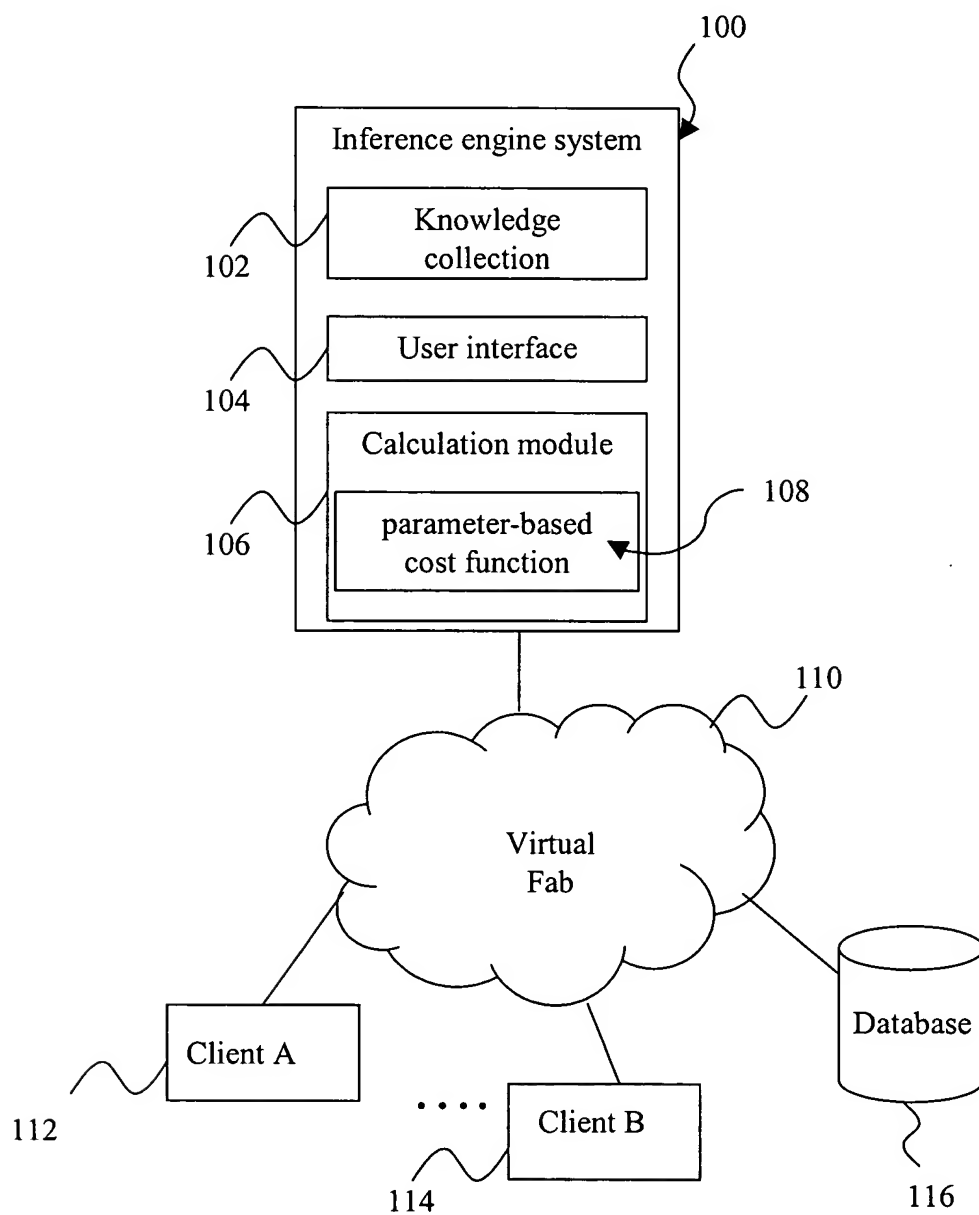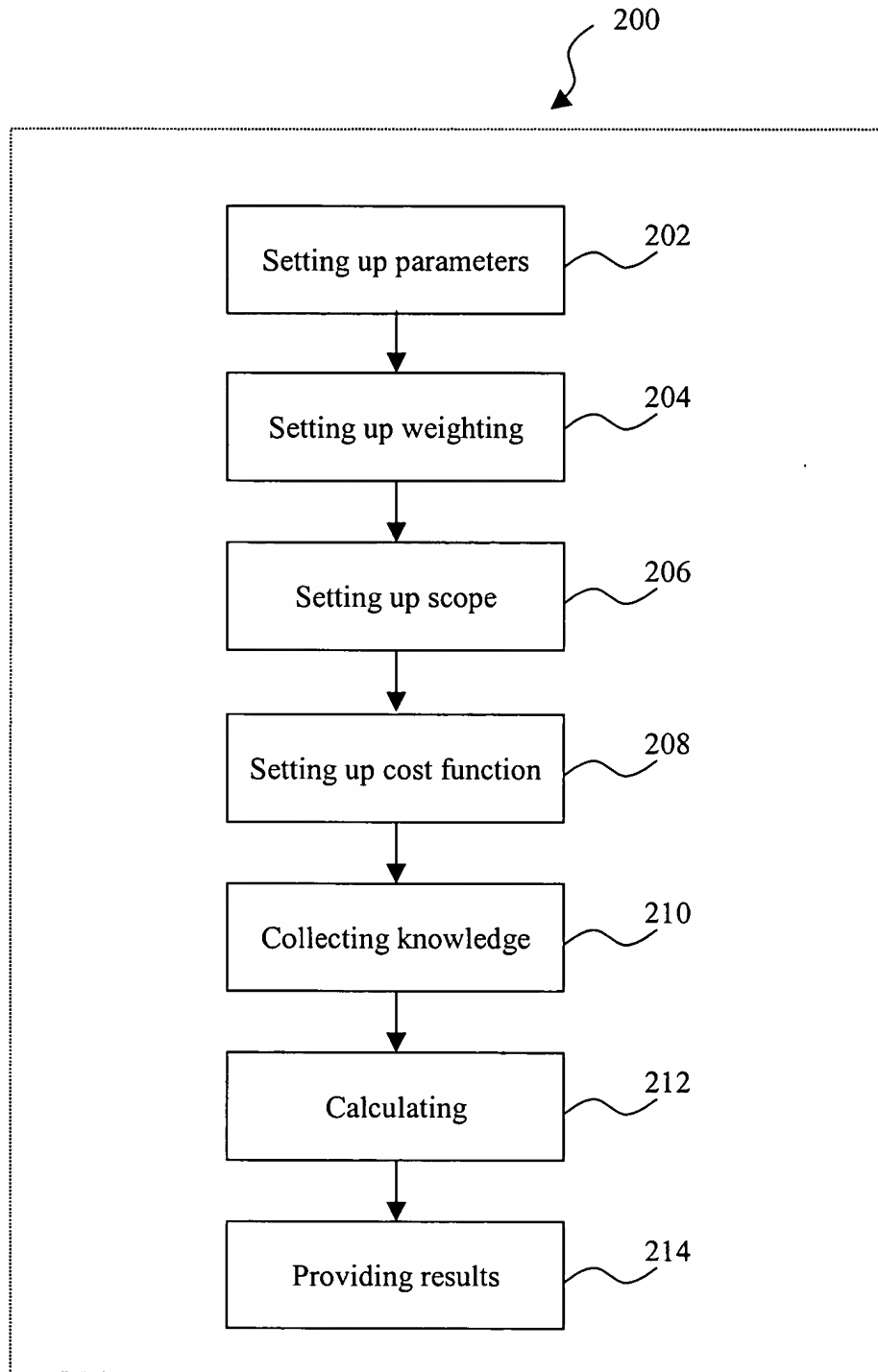24061.102/TSMC2003-0425
Yu Jen Chen et al.
A Method and System for Providing an Inference Engine Including a
Parameter-Based Cost Function to Evaluate Semiconductor Clients

Fig. 1

24061.102/TSMC2003-0425
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Parameter-Based Cost Function to Evaluate Semiconductor Clients

200

Setting up parameters — 202

Setting up weighting — 204

Setting up scope — 206

Setting up cost function — 208

Collecting knowledge — 210

Calculating — 212

Providing results — 214

Fig. 2

24061.102/TSMC2003-0425
Yu Jen Chen et al.
A Method and System for Providing an Inference Engine Including a
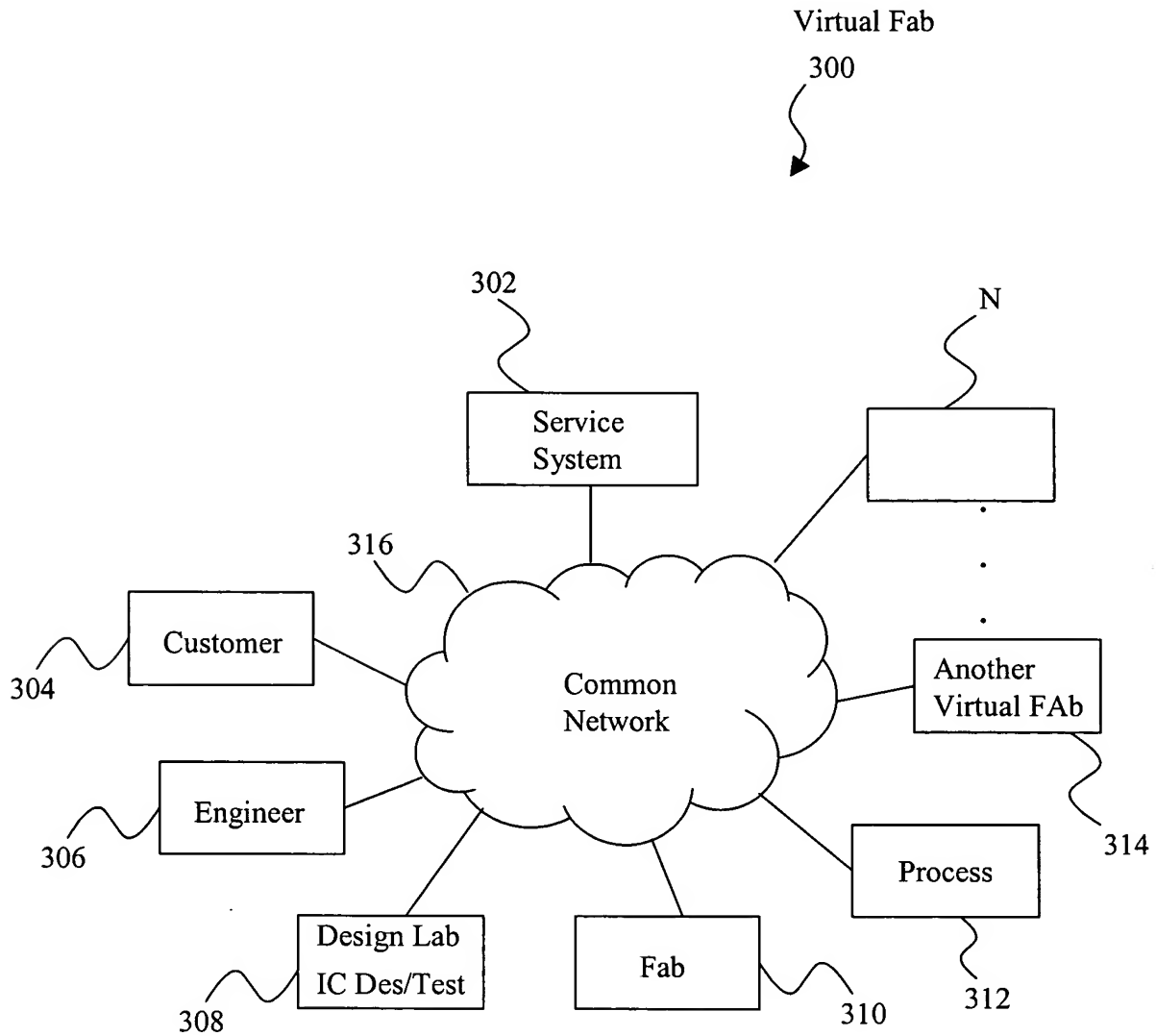Parameter-Based Cost Function to Evaluate Semiconductor Clients

Virtual Fab

300

302

N

Service
System

316

Customer

304

Engineer

306

Common
Network

Another
Virtual FAb

314

Process

Design Lab
IC Des/Test

308

Fab

310

312

Fig. 3

24061.102/TSMC2003-0425
Yu Jen Chen et al.
A Method and System for Providing an Inference Engine Including a
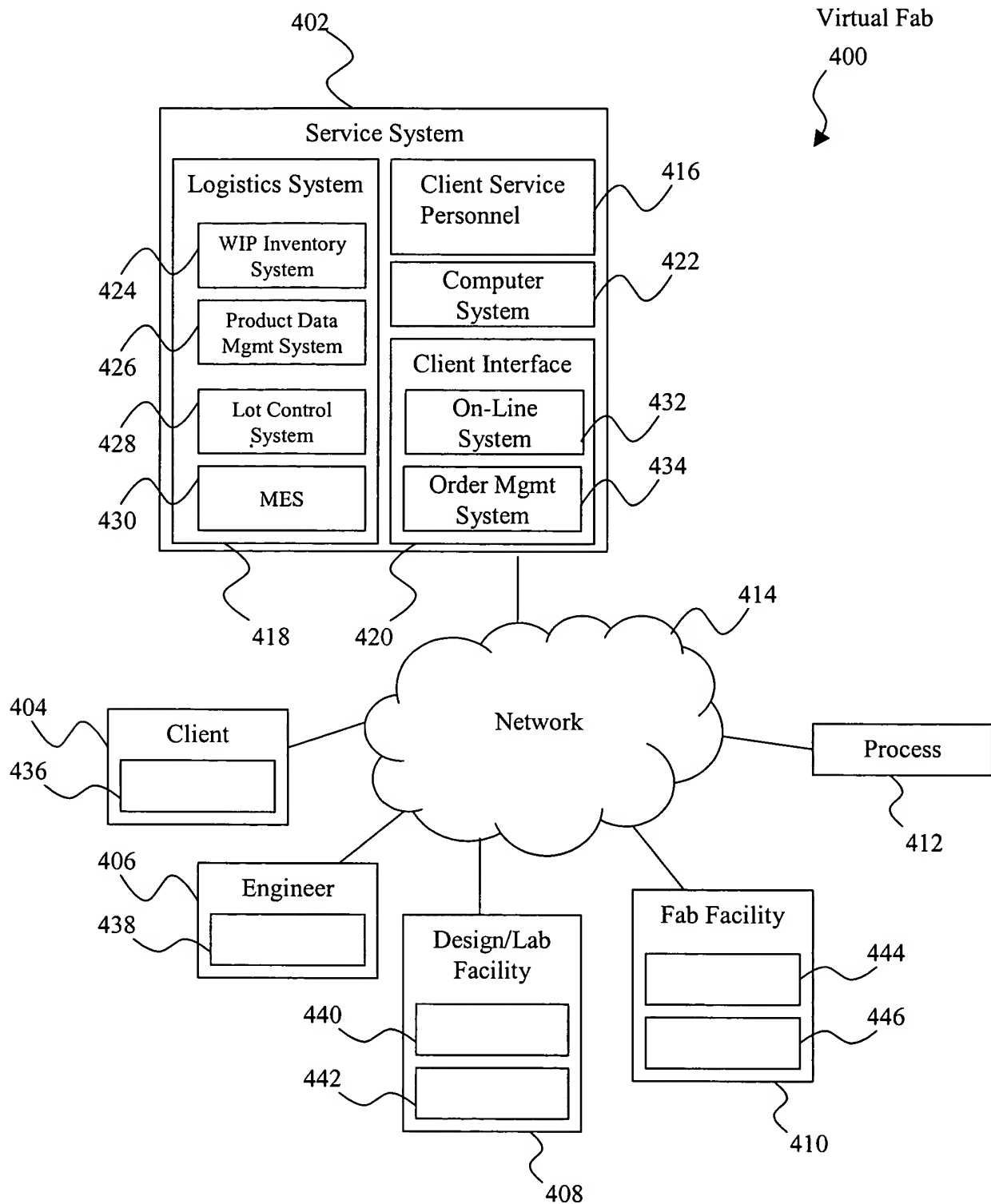Parameter-Based Cost Function to Evaluate Semiconductor Clients

Virtual Fab

400

402

Service System

Logistics System	Client Service Personnel

416

WIP Inventory System	Computer System

424   422

Product Data Mgmt System	Client Interface

426

Lot Control System	On-Line System

428   432

MES	Order Mgmt System

430   434

418   420

414

Network

404

Client

436

406

Engineer

438

Design/Lab Facility

440

442

Fab Facility

444

446

410

408

Process

412

Fig. 4

24061.102/TSMC2003-0425
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Parameter-Based Cost Function to Evaluate Semiconductor Clients

500

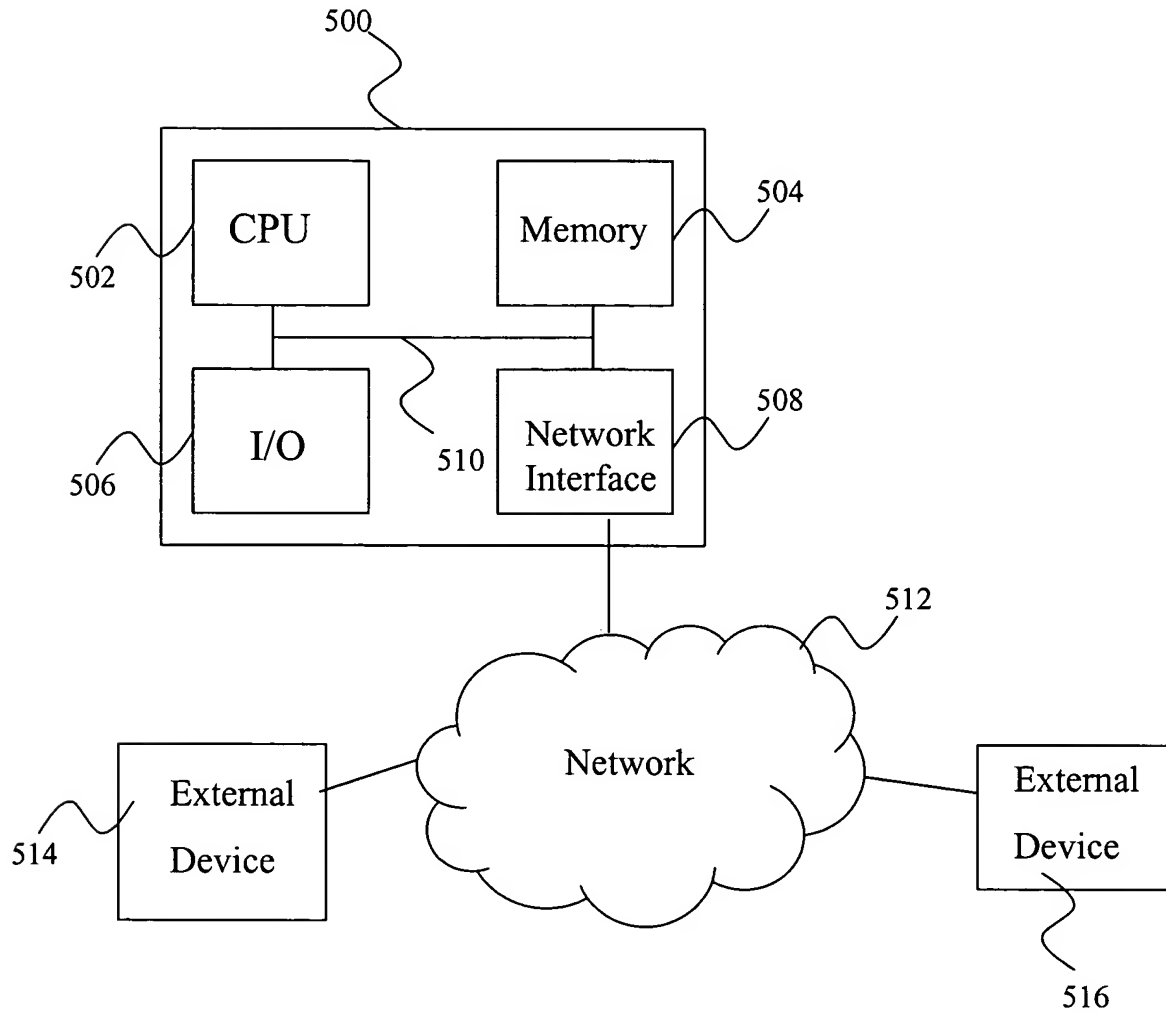| CPU	Memory

502

504

I/O	Network Interface

506

510

508

Network

512

External Device

514

External Device

516

Fig. 5

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Parameter-Based Cost Function to Evaluate Semiconductor Clients

600

Scope

Region: ● All   O   Asia   O Europe   O USA

DSA: O   Included   ● Excluded

Time period: Start from   [1 ▼]   months ago

Top   [30 ▼]   Companies

602

Calculation Method

O   Non-normalized   ●   Normalized

604

Weighting   O   List details

Process: 0.13 and below [1 ▼] 0.15~0.25 [1 ▼] 0.25 and above [0 ▼]

Tech file down load: Tech files   [1 ▼]

Library download: [1 ▼]

Chip implementation: Projects   [1 ▼]

Reference flow download: [1 ▼]

NTO: [1 ▼]

606

Fig. 6

24061.102/TSMC2003-0425
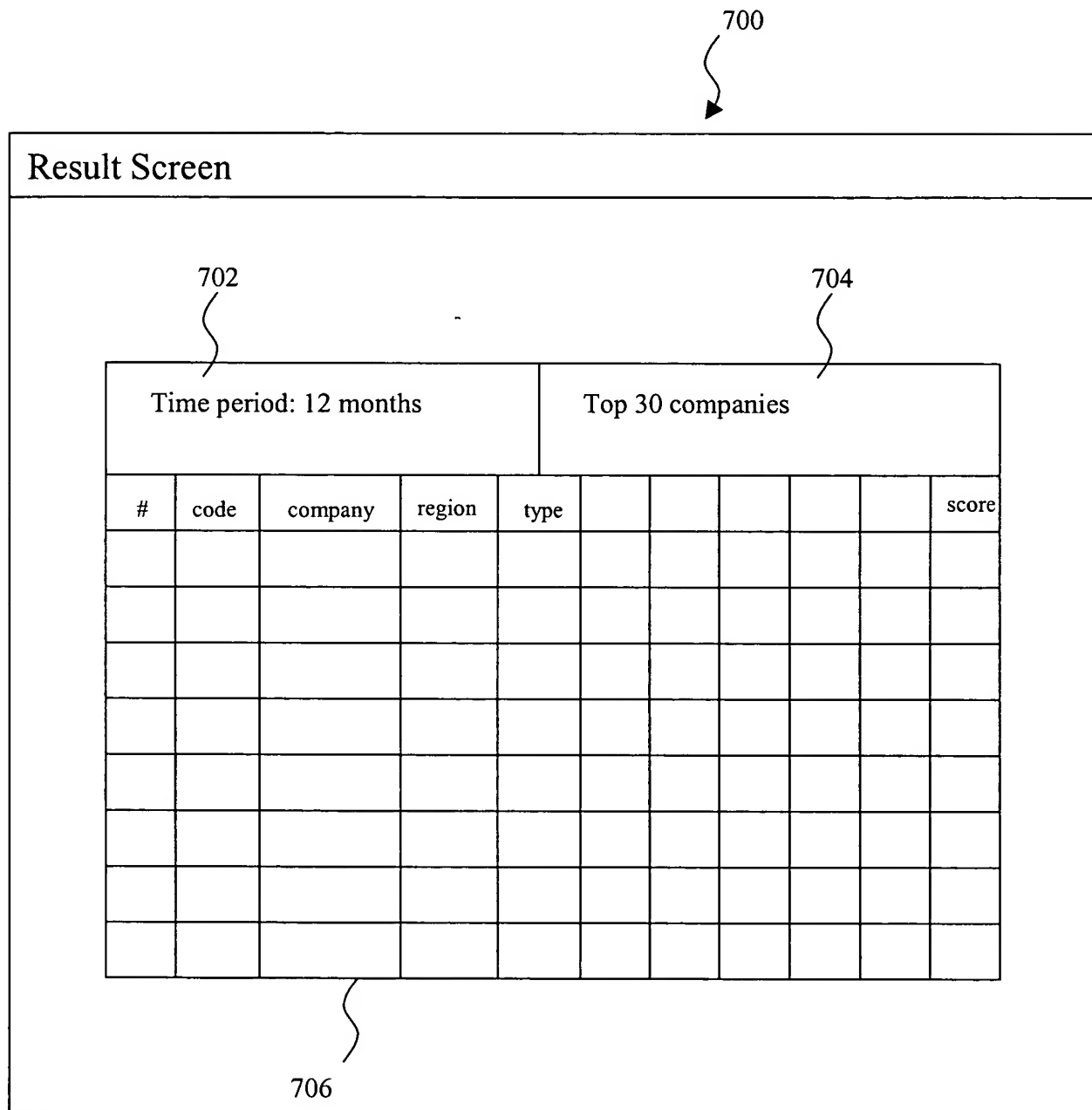Yu Jen Chen et al.
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Parameter-Based Cost Function to Evaluate Semiconductor Clients

700

Result Screen

702

704

Time period: 12 months				Top 30 companies						
#	code	company	region	type						score

706

Fig. 7